

S&MA Mission Services Technical Directive

REC'D MIG 2 9 2004

Control No: 0138	Org. Code: QD20	Project Code: Sh-ROCR	Contract #: NAS8-00179
Originator: QD40/L. Carr <i>[Signature]</i>		Date: 8/20/04	
Office Manager's Signature: QD20/Alex Adams <i>[Signature]</i>		Date: 8-20-04	
COTR's Signature: QD01/Terry Hamm <i>[Signature]</i>		Date: 8-20-04	
Subject: Provide S&MA support to the Shuttle RCC On-orbit Crack Repair (ROCR) Project			
<p>Task Description: Utilizing as a basis PWS 3.0/5.0/6.0/8.0, provide the below assurance functions to the ROCR Project.</p> <p><u>Safety PSW 3.0</u></p> <ol style="list-style-type: none">1. Assess project documentation to assure applicable safety requirements included.2. Prepare an integrated material and canister Hazard Analysis.3. Assess Safety Plans and Integrated Hazard Analyses to assure hazards are identified, controls and mitigation are defined, and safety verifications requirements are identified.4. Prepare Ground Safety Data Package for material filled canister.5. Prepare SDP and presentations for Phased Safety Reviews6. Participate in Safety Reviews and other essential safety related reviews.7. Provide input to the Project Fault Tree. <p><u>Reliability PSW 5.0</u></p> <ol style="list-style-type: none">1. Assess project or contractor documentation to assure reliability requirements included.2. Assess contractor FMEA/CIL, fault-trees, and other reliability analyses for completeness.3. Prepare PFMEA.4. Support Milestone Reviews as related to reliability. <p><u>Quality PWS 6.0</u></p> <ol style="list-style-type: none">1. Provide quality engineering for the ROCR project, to include:<ol style="list-style-type: none">a. Support Product Development Team, Project Team Meetings, TIMs, and Milestone Reviewsb. Support development of S&MA Plan and Prepare or Evaluate the Project Quality Planc. Evaluate inspection criteria and support S&MA Inspections Activitiesd. Support failure and problem analyses, MRB, and the non-conforming materials processe. Support internal and external auditsf. Evaluate engineering changes, waivers and deviationsg. Evaluate test plans and procedures and witness testingh. Evaluate project and project related plans and proceduresi. Evaluate verification data and documentationj. Develop PQA requirements for project procurements <p><u>Project Assurance PSW 8.0</u></p> <ol style="list-style-type: none">1. Coordinate with the project to assure resources are adequate and schedules are met.2. Participate in Milestone Reviews, Data Reviews, and other essential reviews.3. Coordinate with S&MA and Project Team Leads to assure proper execution of S&MA requirements. <p><i>This is a definitive change that is within the scope of the contract. It is covered by the change clause of the contract.</i></p>			
Deliverables: As defined above			
Duration (If time limited task): 09-07-04 through 01-31-05			
Report Progress To: RCC Lead		Frequency of Report: As required	